

Geometric Design Of Urban and Rural Roads Course

Venue Information

Venue: London UK

Place:

Start Date: 2026-04-14

End Date: 2026-04-18

Course Details

Net Fee: £4750.00

Duration: 1 Week

Category ID: CACETC

Course Code: CACETC-29

Syllabus

Course Syllabus

Course Description

Good road design will achieve operational efficiency, be safe and cost effective, and minimise the environmental impact. The role of the road designer is to produce the most appropriate design that achieves the specified functionality using the design inputs from all relevant disciplines. The design must provide for a safe and efficient road facility that takes into account all inputs from stakeholders and road users.

This course will cover these principles so that delegates will obtain a clear understanding of the key geometric design requirements for road design. Delegates will be given the opportunity to apply the knowledge gained with various design exercises and syndicate participation of a re-design of an actual three kilometre rural roads

Course Objective

Course Outline

- Road hierarchy and road classification in both urban and rural areas
- Design control and criteria
- Sight distances and their applications
- Horizontal alignment
- Vertical alignment
- Intersections (at-grade, grade separation, interchanges)
- Traffic control devices